

Antenna specification

Customer name: _____

Customer item: _____

Ke Xin Liao Hao: _____

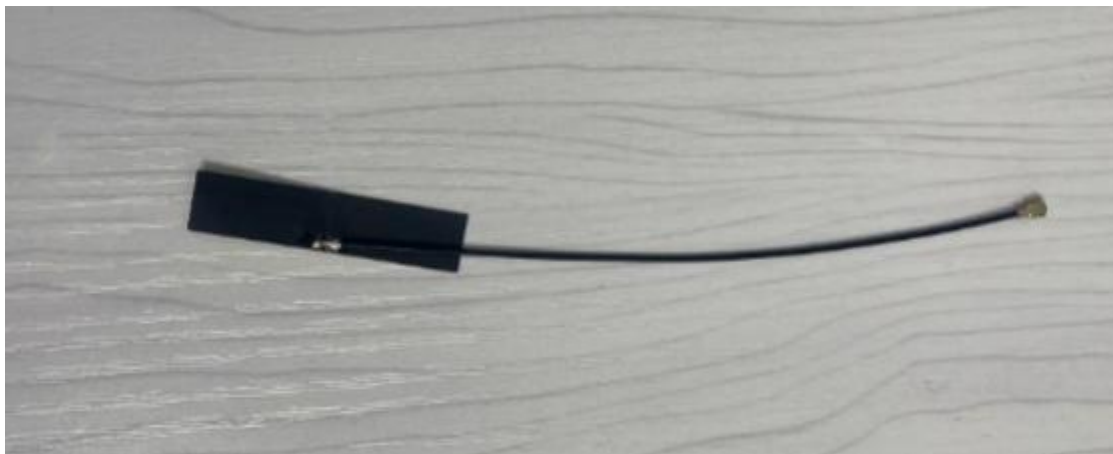
Specification: 2.4G new soft built-in -RG1.13 line /12CM/IPEX

Date of production: July 10, 2024

Department	Review	approve
RF department	刘啸	李斌
Structural department	李志晓	李斌
Quality department	王飞	李斌

1.Product picture

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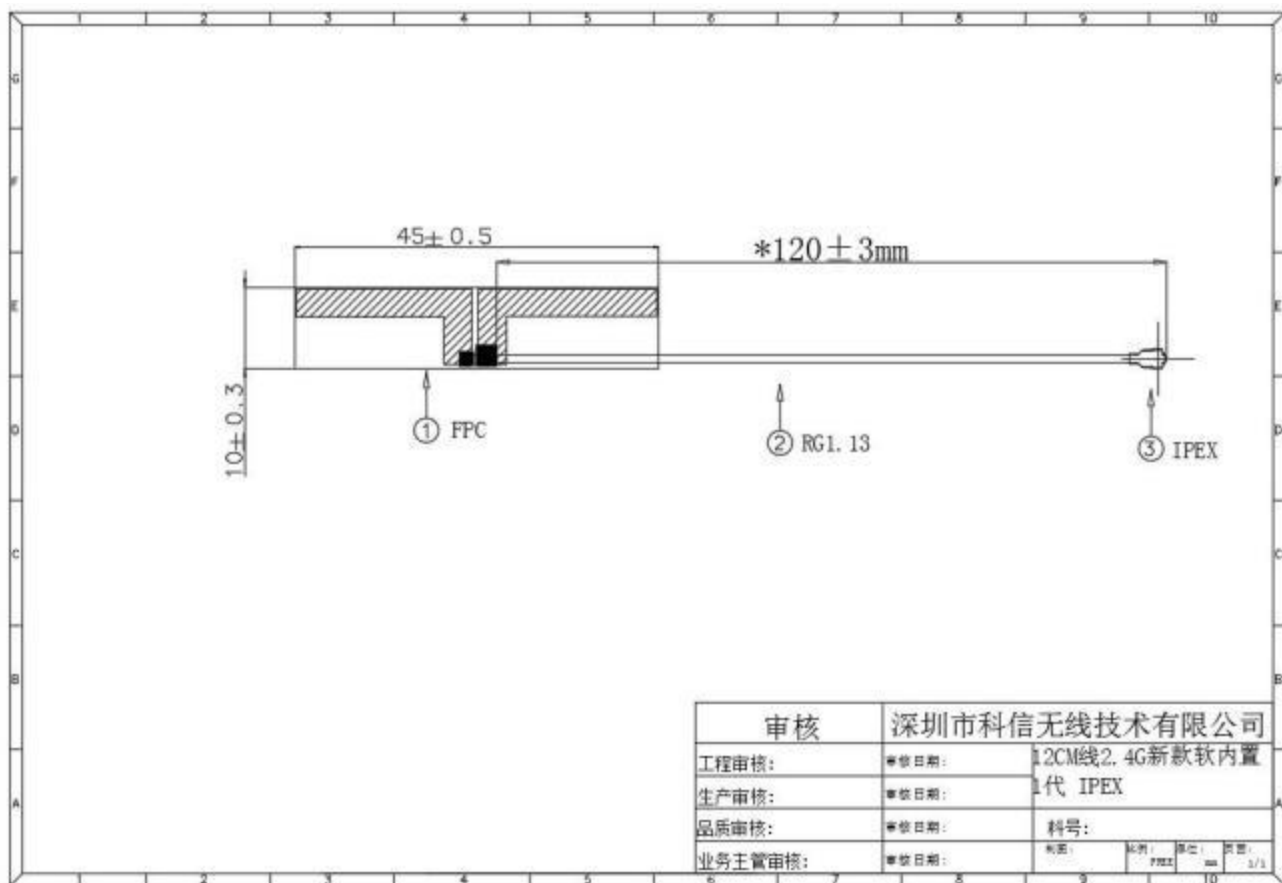
2. Electrical performance test report,VSWR:



3. Product performance parameters
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电性能指标Electrical Specifications	
频率范围Frequency Range (MHz)	2400-2500
输入阻抗Input Impedence (Ω)	50
电压驻波比V.S.W.R	≤ 2.0 （未匹配设备，仅供参考）
增益Gain (dBi)	3 ± 0.5 （未匹配设备，仅供参考）
极化形式Polarization Type	垂直Vertical
最大功率Maximum power(W)	10W
垂直面波瓣角度Vertical lobe Angle（E）	$45 \sim 60^\circ$
水平面波瓣角度Water plane lobe Angle（H）	360°
机械指标Mechanical Specifications	
天线材质Material	FPC
连接器型号Connect Type	IPEX1代
天线尺寸Size	$45 \times 10 \times 0.25\text{mm}$
工作温度Operating Temp	$-20 \sim +65\text{ }^\circ\text{C}$

4. 2D:



Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dBi)	-2.51	-2.65	-2.67	-2.99	-3.22	-3.11	-3.14	-3.20	-3.05	-2.91	-2.82
Gain (dBi)	3.05	2.80	2.72	2.41	2.24	2.38	2.36	2.26	2.44	2.63	2.81
Efficiency (%)	56.12	54.28	54.02	50.21	47.64	48.82	48.55	47.91	49.60	51.14	52.19
Directivity (dB)	5.56	5.45	5.39	5.40	5.46	5.49	5.50	5.45	5.48	5.55	5.64
Peak Gain Position (Theta)	99.00	100.00	101.00	102.00	103.00	103.00	103.00	103.00	102.00	102.00	102.00
Peak Gain Position (Phi)	145.00	163.00	165.00	163.00	162.00	163.00	163.00	162.00	132.00	135.00	138.00
Efficiency ThetaPol (%)	40.23	38.58	37.95	34.88	32.76	33.32	32.98	32.52	33.83	35.15	36.24
Efficiency PhiPol (%)	15.89	15.70	16.06	15.33	14.88	15.49	15.57	15.39	15.77	15.98	15.95
Upper Hem. Efficiency (%)	18.76	17.64	17.09	15.39	14.27	14.56	14.69	14.94	15.87	16.61	16.90
Lower Hem. Efficiency (%)	37.36	36.64	36.92	34.82	33.37	34.25	33.86	32.97	33.73	34.52	35.30
T90(H)角度	4.62	4.57	4.52	4.59	4.51	4.36	4.10	3.85	3.94	4.16	4.43
Gain 15deg (dBi)											
E1(XZ)波瓣宽度	38.00	41.00	40.00	41.00	40.00	37.00	36.00	36.00	35.00	36.00	36.00
E1(XZ)前后比	9.41	9.46	9.27	8.86	8.45	8.20	8.09	8.08	8.19	8.35	8.59
E2(YZ)波瓣宽度	53.00	53.00	51.00	50.00	48.00	47.00	46.00	47.00	49.00	51.00	51.00
E2(YZ)前后比	6.23	6.19	6.17	6.17	6.10	6.12	6.15	6.17	6.29	6.46	6.75
最大增益处轴比(P)	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
仰角10度差(大)轴比(P)	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
Hc(XY)波瓣宽度	179.00	188.00	201.00	213.00	221.00	226.00	230.00	228.00	203.00	193.00	187.00
Hc(XY)前后比	2.71	2.48	2.26	2.07	1.93	1.89	1.94	2.13	2.51	2.83	3.08

